

Exhibit B

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## CURRICULUM VITAE

Name: Jeanne D. Joseph

Title: Research Chemist (Retired)

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#### Education

Institution	Date	Degree	Field of study
Florida State University Tallahassee, FL	1948-52	B.S.	Physiology
Florida State University	1952-53		Physiology/ Biochemistry
Tulane University New Orleans, LA	1953-54		Physiology/ Biochemistry
Florida State University	1954-55		Physiology/ Biophysics

#### Research/Professional Experience

- 1952 Canadian National Research Council Summer Research Fellowship, Queen's University Biological Station, Chaffey's Locks, Ontario, Canada
- 1952-53 Graduate Teaching Assistant, Florida State University
- 1953-54 Graduate Research Assistant, Tulane University
- 1954-55 Graduate Teaching Assistant, Florida State University
- 1959 Instructor in Cellular Physiology, Birmingham Southern College, Birmingham, AL
- 1969-71 Research Assistant in Lipid Biochemistry, Virginia Institute of Marine Science, Gloucester Point, VA
- 1972-73 Affiliate Marine Scientist, Marine Resources Research Institute (MRRI), Charleston, SC
- 1973-78 Assistant Marine Scientist, MRRI, Charleston, SC
- 1978-94 Research Chemist, National Marine Fisheries Service, (NMFS) Charleston Laboratory, Charleston, SC

#### Honorary/Professional Societies

- Sigma Xi
- American Oil Chemist's Society (AOCS)

#### Awards

- 1981 Honorable Mention, Smalley Check Sample Program , AOCS
- 1985 Honorable Mention, Outstanding publication in Marine Fisheries Review, NMFS
- 1986 Special Act Group Award, NMFS
- 1991 Collaborative Study of the Year , Association of

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Official Analytical Chemists (AOAC)  
1990-93 Outstanding/Commendable Performance Awards, NMFS

**Major Professional NMFS Duties**

1978 - Develop state-of-the-art marine lipid analytical laboratory; oversee operation and output.  
1985 - Develop process for production of biomedical test materials from fish oil (refined oil, omega-3 concentrates, purified EPA and DHA); implement and oversee pilot scale production.  
1991 - Enhance small-scale laboratory Marine Biotoxins project into a national NMFS program; coordinate workshop on marine biotoxins and harmful algae (Sponsored by NMFS Charleston Laboratory and Woods Hole Oceanographic Institution); determine specifications for state-of-the-art mass spectrometer and nuclear magnetic resonance spectrometer, write and submit RFPs for each.

**Professional Extramural Activities**

1980 Co-convenor and session chair. Marine Lipid Symposium. Joint meeting of the AOCS and the International Society for Fat Research.  
1984 Convenor and session chair. Lipid Recovery Symposium. Annual meeting of the AOCS, Dallas, TX.  
1986 Invited speaker. Short Course on Marine Lipids and EPA. AOCS, Kona, HI.  
1988 Co-coordinator (with R.G. Ackman). Collaborative study on the analysis of marine fatty acids by capillary GLC. AOAC.

**Peer Reviewed Publications**

Denves, H.A. and J.D. Joseph. 1956. Relationships between temperature and blood oxygen in the large mouth bass. J. Wild. Management. 20:56-64.

Wasserman, K., J.D. Joseph and H.S. Mayerson. 1956. Kinetics of vascular and extravascular protein exchange in unbled and bled dogs. Amer. J. Physiol. 184:175-182.

Surrell, V.G., Jr. and J.D. Joseph. 1974. Occurrence of *Macrolides inexpectata* in South Carolina. J. Elisha Mitchell Soc. 90:51.

Ackman, R.G., A. Manzer and J.D. Joseph. 1974. Tentative identification of an unusual naturally-occurring polyenoic fatty acid by calculations from precision open-tubular GLC and structural element retention data. Chromatographia 7:107-114.

Joseph, J.D. and J.E. Williams. 1975. Shrimp head oil: A potential feed additive for mariculture. Proc. World Mariculture Soc. 6:147-155.

Joseph, J.D. 1975. Identification of all *cis* 3,6,9,12,15-octadecapentaenoic acid in laboratory cultured photosynthetic

- dinoflagellates. Lipids 10:395-403.
- Sandifer, P.A. and J.D. Joseph. 1976. Survival, growth, fatty acid composition and pigmentation of juvenile prawns, *Macrobrachium rosenbergii*, fed a prepared ration augmented with shrimp oil. Aquaculture 8:129-138.
- Joseph, J.D. 1977. Assessment of the nutritional role of algae in the culture of larval prawns, *Macrobrachium rosenbergii*. Proc. World Mariculture Soc. 8:853 861.
- Eldridge, M.B., J.D. Joseph, K.M. Taberski and G.T. Seaborn. 1983. Lipid and fatty acid composition of the endogenous energy sources of striped bass (*Morone saxatilis*) eggs. Lipids 18:510-513.
- Joseph, J.D., R.G. Ackman and G.T. Seaborn. 1985. Effect of diet on depot fatty acid composition in the green turtle, *Chelonia mydas*. Comp. Biochem. Physiol. 80B:15-22.
- Joseph, J.D. 1986. Fatty acid composition of commercial menhaden, *Brevoortia* spp. oils: 1982 and 1983. Mar. Fish. Rev. 47:30-37.
- Joseph, J.D. and R.G. Ackman. 1992. Analysis of encapsulated fish oils and fish oil ethyl esters by capillary column gas liquid chromatography; Collaborative study. J. AOAC Int'l. 75, 488-506.

#### Invited Reviews

Joseph, J.D. 1979. Lipid composition of marine and estuarine invertebrates: Porifera and Cnidaria. Prog. Lipid Res. 18:1-30.

Joseph, J.D. 1982. Lipid composition of marine and estuarine invertebrates. Part 2. Mollusca. Prog. Lipid Res. 21:109-153.

Joseph, J.D. 1987. Distribution and composition of lipids in marine invertebrates. In Marine Biogenic Lipids, Fats and Oils, Vol. 2. R.G. Ackman, (Ed.) CRC Press, Inc. Boca Raton, FL. pp 49-143.

Joseph, J.D. and G.T. Seaborn. 1990. The analysis of marine fatty acids. In Fish Oils in Nutrition. M.E. Stansby, (Ed.) Van Nostrand Reinhold. New York, NY. pp 40 72.

#### Other Publications

Joseph, J.D. and S.P. Meyers 1975. Lipid and fatty acid composition of shrimp meals and crustacean diets. Feedstuffs, Sept. 1:28-29.

Joseph, J.D. and R.G. Ackman. 1980. Aquatic lipids. In Survey on Science and Technology. K. Marcuse and K. Ohlson (Eds.). International Society for Fat Research. Goteborg, Sweden, pp 19-23.

Joseph, J.D. and G.T. Seaborn. 1982. Preliminary studies in marine lipid oxidation. NOAA Technical Memorandum NMFS SEFC 95; 93p. (NTIS: PB84-123371; A05).

Hale, M.B., J.D. Joseph and G.T. Seaborn. 1982. Lipid oxidation in blueback herring, *Alosa sapidissima*, during frozen and superchilled (-2°C) storage: effect of TBHQ antioxidant. NOAA Technical Memorandum NMFS SEFC-75; 17p. (NTIS: FE82-215799; A02).

Seaborn, G.T., J.D. Joseph and P.E. Bauersfeld. 1986. NMFS fish oil aids consumers and industry. Proc. Eleventh Annual Trop. and Subtrop. Fish. Technol. Conf. pp 263-274.

Joseph, J.D. 1989. Biomedical Test Materials Program: Production Methods and Safety Manual. NOAA Technical Memorandum NMFS SEFC-234; 128p. (NTIS: PB90-159930; A07).

Anderson, D.M., S.B. Galloway and J.D. Joseph. 1993. Marine biotoxins and harmful algae: A national plan. Woods Hole Oceanogr. Inst. Tech. Rept. WHOI 93-02. 55p.

#### Abstracts and Presentations

Joseph, J.D., R.W. Schmidt and P.L. Zubkoff. 1971. Comparative biochemistry of jellyfish: Neutral lipids of *Aurelia*, *Chrysaora*, and *Cyanea* polyps. American Chemical Society. Sixth Middle Atlantic Regional Meeting. February, 1971. Baltimore, MD.

Zubkoff, P.L. and J.D. Joseph. 1971. Comparative biochemistry of jellyfish: Component fatty acids of the total lipids of *Aurelia*, *Chrysaora*, and *Cyanea*. Estuarine Research Federation. November, 1971. Hampton, VA.

Joseph, J.D., P.L. Zubkoff and E.B. Joseph. 1972. Comparative biochemistry of jellyfish: Fatty acids of scyphozoan polyps and medusae and the effect of diet on fatty acid composition. AOCS, 46th Annual Fall Meeting. September, 1972. Ottawa, Ontario, Canada. (Abstract: J. AOCS. 49:300A)

Joseph, J.D. 1974. Identification of a new w3 fatty acid in cultured marine dinoflagellates. AOCS, 48th Annual Fall Meeting, September, 1974. Philadelphia, PA. (Abstract: J. AOCS. 51:515A)

Joseph, J.D. and J.R. Williams. 1975. Shrimp head oil: A potential feed additive for mariculture. World Mariculture Society. 6th Annual Meeting. January, 1975. Seattle, WA.

Joseph, J.D. and P.A. Sandifer. 1975. Utilization of shrimp waste oil in prepared rations for the Malaysian prawn, *Macrobrachium rosenbergii*. 20th Annual Atlantic Fisheries Technological Conference. October, 1971. Washington, DC.

Joseph, J.D. 1977. Assessment of the nutritional role of algae in the culture of larval prawns, *Macrobrachium rosenbergii*. World Mariculture Society, 8th Annual Meeting. January, 1977. San Jose, Costa Rica.

Joseph, J.D. and D.S. Fender. 1977. Non-methylenic interrupted dienes in decapod crustaceans of the southeast Atlantic Ocean. AOCS, 51st Annual Meeting. May, 1977, New York, NY. (Abstract: J. AOCS. 54:145A)

Joseph, J.D. and G.T. Seaborn. 1979. Modified methodology for determination of free fatty acids and iodine value of solvent-extracted fish oils and lipids. AOCS, 53rd Annual Meeting. April, 1979. San Francisco, CA. (Abstract: J. AOCS. 56:202A)

Joseph, J.D. 1980. Applications of the mini-computer in marine fatty acid analysis. AOCS, 54th Annual Meeting. April, 1980. New York, NY. (Abstract: J. AOCS. 57:154A).

Joseph, J.D. and G.T. Seaborn. 1982. Fatty acids of endangered marine turtles: A problem in speciation. AOCS, May, 1982. Toronto, Ontario, Canada. (Abstract: J. Am. Oil Chem. Soc. 59:268A).

Joseph, J.D. and G.T. Seaborn. 1984. Problems in extraction and recovery of lipids from marine organisms. AOCS, April, 1984. Dallas, TX.

Joseph, J.D. 1986. AOCS Workshop on Marine Lipids and EPA. Kona, HI.

Joseph, J.D., S.B. Galloway, L.W. Regier and R.R. Kifer. 1987. Production of biomedical test materials from menhaden oil. Conference on Polyunsaturated Fatty Acids and Eicosanoids. May, 1987. Washington, DC (Poster presentation).

Joseph, J.D., S. Braddon-Galloway and R.R. Kifer. 1988. Biomedical test materials from menhaden oil. Proc. 12th Annual Conf. Trop. and Subtrop. Fish. Technol. Soc. (Abstract). November, 1987. Orlando, FL.

Joseph, J.D., S. B. Galloway and R.R. Kifer. 1990. Production of biomedical test materials from menhaden oil. Proceedings of the 11 International Conference on the Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods. March, 1990. Washington, DC (Poster presentation). (Abstract: Rev. Nutr. and Diet., 66:510-11.)

Joseph, J.D. and R.G. Ackman. 1991. Collaborative study of marine fatty acids by capillary GPC: statistical and graphical evaluations. AOCs, 82nd Annual Meeting. May, 1991. Chicago, IL (Abstract: Inform 2:361).

Joseph, J.D. and R.G. Ackman. 1991. Analysis of encapsulated fish oils and fish oil ethyl esters by capillary column gas-liquid chromatography; Collaborative study. ASTM E-19 Committee on Chromatography Annual Meeting. October, 1991. Atlanta, GA.

Joseph, J.D. 1993. Eicosapentaenoic acid: A biomarker for toxic marine phytoplankton? AOCs, 82nd Annual Meeting. April, 1993. Anaheim, CA. (Abstract: Inform 4, 554).

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